



Jsw

PTO/SB/21 (04-04)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	10/721,559
Filing Date	November 25, 2003
First Named Inventor	Jin Wang
Art Unit	2611
Examiner Name	Jayanti K. Patel
Attorney Docket Number	I-2-0401.1US

### ENCLOSURES (Check all that apply)

- ☐ Fee Transmittal Form
- ☐ Fee Attached
- ☐ Amendment/Reply
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☒ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Response to Missing Parts/Incomplete Application
- ☐ Response to Missing Parts under 37 CFR 1.52 or 1.53

- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation
- ☐ Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD, Number of CD(s) \_\_\_\_\_

- ☐ After Allowance communication to Technology Center (TC)
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
- ☐ Proprietary Information
- ☐ Status Letter
- ☒ Other Enclosure(s) (please identify below):  
Form PTO-1449 (2 pgs.) w/ a copy of the European Search Report and four (4) references.

Remarks

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Louis Weinstein Volpe and Koenig, P.C.
Signature	
Date	May 11, 2006

Reg. No. 20,477

### CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name	Louis Weinstein
-----------------------	-----------------

Signature		Date	May 11, 2006
-----------	--	------	--------------

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In the **PATENT APPLICATION** of:

Jin Wang

**Application No.:** 10/721,559

**Confirmation No.:** 5822

**Filed:** November 25, 2003

**For:** ADAPTIVE TURBO MULTIUSER  
DETECTION FOR HSDPA/TDD CDMA WITH  
UNKNOWN INTERFERERS

**Group:** 2611

**Examiner:** Jayanti K. Patel

**Our File:** I-2-0401.1US

**Date:** May 11, 2006

**INFORMATION DISCLOSURE STATEMENT  
INCLUDING RULE 1.704(d) STATEMENT**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Further to Applicant's Duty of Disclosure pursuant to 37 C.F.R. §1.56, Applicant wishes to bring to the Examiner's attention the material cited on the enclosed PTO-1449 form. Newly cited documents are indicated by an asterisk (\*). Copies of the cited documents are enclosed.

Pursuant to 37 C.F.R. § 1.97(e)(1), the undersigned certifies that each new item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application, copy enclosed, and that this communication was not received by any individual designated in §1.56(c)

more than three (3) months prior to the filing of this Information Disclosure Statement.

Pursuant to 37 C.F.R. § 1.704(d), the undersigned certifies that each new item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application, copy enclosed, and that this communication was not received by any individual designated in § 1.56(c) more than thirty (30) days prior to the filing of this Information Disclosure Statement.

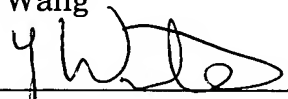
The source of the newly identified items of information is the enclosed communication from a foreign patent office in a counterpart application, dated April 12, 2006.

It is respectfully requested that the Examiner consider these documents and return an initialed copy of the PTO-1449 form indicating his consideration of the cited materials.

Respectfully submitted,

Jin Wang

By



Louis Weinstein

Registration No. 20,477

(215) 568-6400

Volpe and Koenig, P.C.  
United Plaza, Suite 1600  
30 South 17th Street  
Philadelphia, PA 19103

LW/ljs  
Enclosures (6)



FORM PTO-1449  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)				ATTY. DOCKET NO. I-2-0401.1US		SERIAL NO. 10721,559	
				APPLICANT Jin Wang			
				FILING DATE November 25, 2003		GROUP 2631	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		6,587,524	07/2003	Doetsch			
		2002/0126644 A1	09/2002	Turpin et al.			
		2002/0161560 A1	10/2002	Abe et al.			
		2002/0163978 A1	11/2002	Doetsch et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
		Wang et al., "Blind Turbo Equalization in Gaussian and Impulse Noise," IEEE Transactions on Vehicular Technology, vol. 50, no. 4, July 2001, pgs. 1092-1105.					
		3GPP TS 25.308 v5.2.0 (2002-03), 3 <sup>rd</sup> Generation Partnership Project; Technical Specification Group Radio Access Network; High Speed Downlink Packet Access (HSDPA); Overall description; Stage 2 (Release 5).					
		3GPP TR 25.848 v4.0.0 (2001-03), 3 <sup>rd</sup> Generation Partnership Project; Technical Specification Group Radio Access Network; Physical layer aspects of UTRA High Speed Downlink Project Access (Release 4).					
		3GPP TS 25.221 v5.0.0 (2002-03), 3 <sup>rd</sup> Generation Partnership Project; Technical Specification Group Radio Access Network; Physical channels and mapping of transport channels onto physical channels (TDD) (Release 5)					
		Wang et al., "Monte Carlo Bayesian Signal Processing for Wireless Communications."					
		Wang et al., "Adaptive Bayesian Multiuser Detection for Synchronous CDMA with Gaussian and Impulsive Noise," IEEE Transactions on Signal Processing, Vol. 47 No. 7, July 2000.					

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)				ATTY. DOCKET NO. I-2-0401.1US		SERIAL NO. 10/721,559	
				APPLICANT Jin Wang			
				FILING DATE November 25, 2003		GROUP 2631	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
*		Zigang Yang et al., "Blind Turbo Multiuser Detection for Long-Code Multipath CDMA", IEEE Transactions on Communications IEEE USA, vol. 50, no. 1, January 2002, pgs. 112-125.
*		Van Dao Phan et al., "Bayesian Turbo Multiuser Detection for Nonlinearly Modulated CDMA", Signaling Processing, Amsterdam, NL, vol. 82, no. 1, January 2002, pgs. 43-68.
*		Zigang Yang et al., "Blind Turbo Multiuser Detection for Long-Code Uplink CDMA with Unknown Interferences", 2001 IEEE International Conference on Acoustics, Speech and Signal Processing, vol. 1 of 6, 7 May 2001, pgs. 2305-2308.
*		J. Henry Horng et al. "Capacity Enhancement for HSDPA in W-CDMA System", VTC-2002-Fall. 2002 IEEE 56 <sup>th</sup> . Vehicular Technology Conference Proceedings. vol. 1 of 4. conf. 56, 24 September 2002, pgs. 661-665.

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.